

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122

RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

NOV 22 1988

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-17-88		OIL CON. DIV.			
Company Blackwood & Nichols Co., Ltd.		Connection Not Known					
Pool Basin Fruitland Coal		Formation Fruitland		Unit Northeast Blanco Unit			
Completion Date 11-03-88		Total Depth 3202'		Plug Back TD 3200'			
Elevation 6299'		Farm or Lease Name					
Csq. Size 7" x	Wt. 23.0#	Set At 6.366	2949'	Perforations: From 3019' To 3200'			
Trq. Size 2.875	Wt. 6.5#	Set At 2.441	3019'	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At			
Producing Thru Tubing				Baro. Press. - P_a 12.00			
Reservoir Temp. *F P				Mean Annual Temp. *F			
County Rio Arriba				State New Mexico			
L	H	Gg 0.69	% CO ₂ 10-12%	% N ₂	% H ₂ S		
Prover 3/4"				Meter Run	Taps		
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w		
SI							
1.	3/4" Choke			180	50		
2.	3/4" Choke			180	70		
3.	3/4" Choke			165	70		
4.	3/4" Choke			175	70		
5.							
TUBING DATA							
Press. p.s.i.g.		Temp. *F		Duration of Flow			
1480				14 days			
220				1 hour			
210				2 hours			
195				3 hours			
200				4 hours			
CASING DATA							
Press. p.s.i.g.		Temp. *F		Duration of Flow			
1500				14 days			
760				1 hour			
640				2 hours			
640				3 hours			
600				4 hours			
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1							
2							
3							
4	12.365		187	.9905	.9325	1.019	2176
5							
NO.	P_r	Temp. *R	T_r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2					Specific Gravity Separator Gas _____ X X X X X X X X		
3					Specific Gravity Flowing Fluid _____ X X X X X		
4					Critical Pressure _____ P.S.I.A.		
5					Critical Temperature _____ R		
P_c 1512 P_c^2 2,286,144 P_i^2 P_w^2 P_w^2 $P_c^2 - P_w^2$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1959$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1643$							
NO.	P_i^2	P_w^2	$P_c^2 - P_w^2$	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2533$			
1		612	374,544				
2							
3							
4							
5							
Absolute Open Flow 2533				Mcf/d @ 15.025		Angle of Slope θ	
						Slope, n .85	
Remarks: * 5 1/2" 23# (ID - 4.670) Liner 2887' to 3202' with perforation 12 PF from 3019' to 3200'.							
After one hour well made water total - 292 Bbls/4 hours or 1752 BWD							
Approved By Division		Conducted By: D. E. Thompson		Calculated By: D. E. Clark		Checked By:	